

**Chapter 7 System of Equations****Section 7.4: Using Substitution As a Strategy to Solve Linear System**

**Example 4:** Create equations to represent the following situations and solve using substitution. Remember to identify your variables first.

- a) Janice invested \$2000, part in a <sup>7%.</sup> bond that has a rate of return of 7% interest per year and the rest in a <sup>8%.</sup> mutual fund that has a rate of return at 8% interest per year. After one year, the interest earned on the bond was \$50 more than the interest earned on the mutual fund. How much did she invest at each rate?
- b) Sue and Bill paddle 20 km upstream in 4 hours. The return trip takes 3 hours. What is the speed of the canoe relative to the water, and what is the speed of the current?

**Assignment: Page 427 Q# 4, 5, 8, 10, 12, 15, 19a & 19b,**